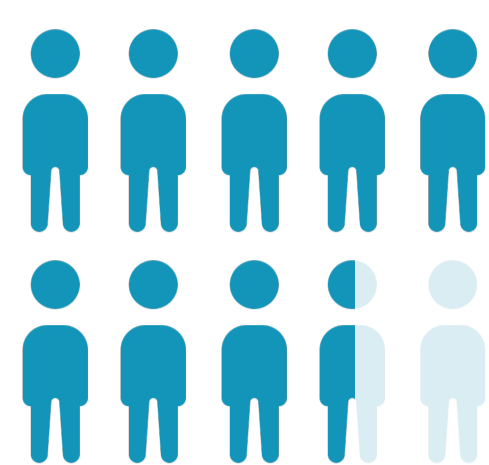# IBM Storwize V5000:
Ease of Use for All Environments

Simplifying the Complexities of
Modern IT with Faster, Smarter,
More Economical Storage

Information technology is the driving force behind business success.

86%
of the IT decision makers surveyed by ESG agreed with the statement, "If we do not embrace digital transformation, we will be a less competitive and/or effective organization."
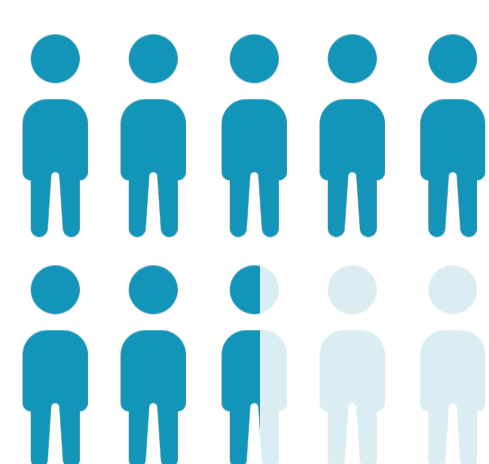
Companies seek to:

- Utilize data to boost operational efficiency
- Provide a differentiated customer experience
- Develop new data-centric products

These requirements are crucial as businesses extend IT functions to the cloud, often to multiple public clouds.

76%
of surveyed infrastructure-as-a-service and/or platform-as-a-service users now leverage more than one public cloud infrastructure provider.

IT organizations need simple, flexible storage infrastructures with the tools that optimize and simplify operations today, and make it easier to integrate new on-premises technologies and cloud services in the future.

IT Complexity

Complexity holds back IT, which limits business potential.

66%
of surveyed IT decision makers told ESG they believe IT is more complex than it was just two years ago.

Two categories of challenges make IT more complex:

1. Increasing number of things to manage

- More endpoint devices
- Higher data volumes
- Increase in number/type of apps being used

2. Ever-evolving technologies to learn

- The need to incorporate emerging tech AI/ML, etc.
- Digital transformation initiative to change the way the business operates
- The need to use both on-prem data centers and cloud providers

Ultimately, the answer is the IBM Storwize V5000, but two technologies integrated in the V5000 are essential to its value.

NVMe Technology = Transformational Improvement in Performance

Non-volatile memory express (NVMe) is an open logical device interface designed for flash storage, which is more efficient than traditional protocols featuring a streamlined and parallel design to maximize low-latency performance.

Storage decision makers are bullish about NVMe:

79%
of the IT managers surveyed by ESG who were familiar with NVMe technology said they expect it will eventually replace traditional SAS- or SATA-connected solid-state flash storage.

Storage Virtualization

Staying current with new technologies fuels complexity, including the pain of traditional data migrations. Storage virtualization technologies overcome complexity across generations of storage hardware.

ESG has researched the benefits of software-defined storage, finding that:

28%
of SDS users believe it offers them agility to adjust and update their storage hardware quickly to keep pace with shifting business requirements.

IBM Storwize V5000

Technical Benefits

An Entirely NVMe-based Architecture for Transformational Performance

- The Storwize V5010E offers 70% better performance than the earlier Storwize V5010, while the Storwize V5030E offers a 20% performance improvement over its predecessor.

Storage Virtualization with Transparent, AI-powered Storage Optimization and Flexibility

- This will be especially helpful when migrating data from existing storage (IBM or not) to the new Storwize V5000.

- AI-powered Easy Tier automatically moves data between tiers to optimize cost and performance. IT administrators can keep an eye on tiering movements using IBM Spectrum Storage Insights, which provides a unified view of the storage environment.

- The systems are architected to make it easy for IT to migrate data to and from the cloud.

Hybrid Multi-cloud

- Storwize delivers the ability to support hybrid, multi-cloud environments; supporting multiple public clouds as well as private cloud in a single solution.

Business Benefits

AI-optimized Storage Consolidation for Modern IT

- Combine the benefits of NVMe performance to consolidate high-performance applications and the massive capacity scalability, with up to 32PB in a single system.

- AI-based optimization and a cloud-like pricing model, along with data-reduction capabilities, ensure IBM's solution is efficient and cost-effective.

Transparent Infrastructure Flexibility

- The system's AI-powered data tiering with transparent migration makes it easy for an organization to take advantage of the latest storage technology.

- Organizations can accelerate their rate of public cloud infrastructure adoption since data can move to and from the cloud.

Advanced Data Security and Risk Mitigation

- Storwize systems are designed for cyber-resiliency, featuring encryption and a cloud "air gap" snapshot capability, which virtually isolates snapshots from the active copy as an extra layer of protection from malicious activities, such as ransomware.

- Storwize provides six-9s availability with proactive support and predictive analytics delivered from the cloud.

- IBM has made thousands of community-sourced best practices available to Storwize users, which helps ensure that each Storwize deployment is optimally tuned for the specific application environment.

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